

ABSTRACT

A new method to control a switchable decoupling capacitor in an integrated circuit device is achieved. The method comprises providing an integrated circuit device comprising a switchable decoupling capacitor. The switchable decoupling capacitor is initialized by a method comprising connecting the switchable decoupling capacitor between a power supply and ground. The state of the switchable decoupling capacitor is stored as enabled. The switchable decoupling capacitor is then controlled during operation of the integrated circuit device by a method comprising monitoring a voltage on a terminal of the switchable decoupling capacitor. The switchable decoupling capacitor is disconnected if the voltage exceeds a threshold level. The state of the switchable decoupling capacitor is stored as disabled if the switchable decoupling capacitor is disconnected.